

-	21	"4488245" and threshold\$1 and (weight\$4 or minimum\$1 or maximum\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 17:27
-	9	"4488245" and threshold\$1 and (weight\$4 or minimum\$1 or maximum\$1)and smooth\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 17:42
-	3	"4488245" and threshold\$1 and (weight\$4 or minimum\$1 or maximum\$1)and smooth\$4 and (assign\$6 or insert\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 17:50
-	70	"4488245" and (print\$3 or ink or colorant\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:09
-	7	"4488245" and (print\$3 or ink or colorant\$1)and halfton\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:10
-	40	"4488245")and (gray or halftone\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:10
-	40	"4488245" and (gray or halftone\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:10
-	64	"4488245" and (gray or halftone\$1 or luminance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:12
-	40	"4488245" and (gray or halftone\$1 or luminance) and black\$1 and whites	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:14
-	47	"4488245" and black\$1 and white\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:15
-	13	"4488245" and black\$1 and white\$1 and shad\$3 and light\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/12 18:16
-	0	"20020089514" and chrominance	USPAT	2004/07/12 13:53
-	0	"20020089514" and chrom\$9	USPAT	2004/07/12 13:53
-	0	"20020089514" and \$4chrom\$9	USPAT	2004/07/12 13:54
-	0	"20020089514" and \$4crom\$9	USPAT	2004/07/12 13:54
-	0	"20020089514" and momo\$8	USPAT	2004/07/12 13:54
-	0	"20020089514"	USPAT	2004/07/12 13:54
-	145036	"20020089514" a1	USPAT	2004/07/12 13:54
-	5	MATRIX ADJ DITHER\$3 SAME PRINTER AND GRAY.ADJ LEVEL\$1 AND (THRESHOLD\$1 OR VALUES OR MINIMUM\$1 OR MAXIMUMS)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:07

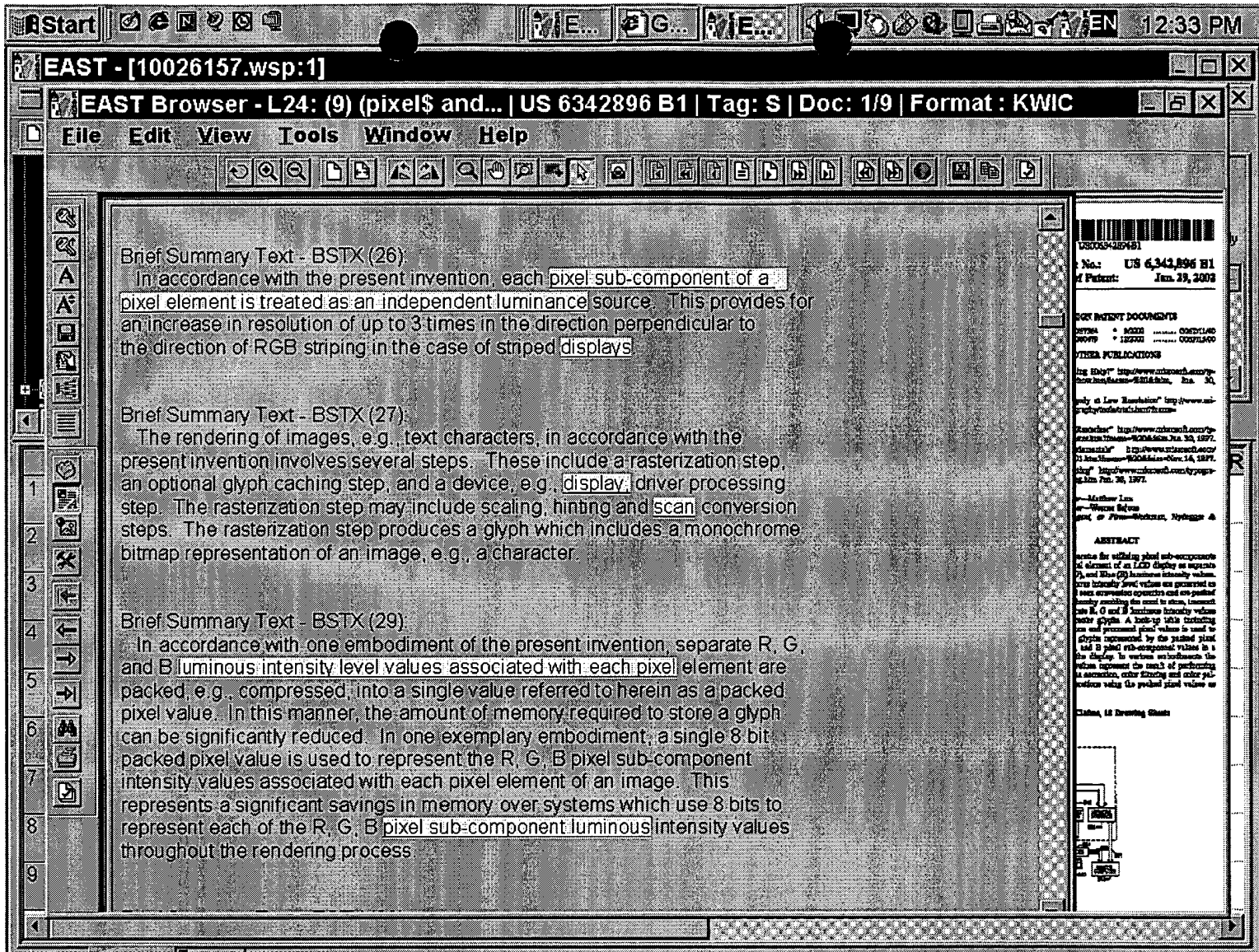
-	1645	pixel\$1 near5 (luminance and chrominance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:07
-	144	pixel\$1 near5 (luminance and chrominance) and(chrominance near5 (without or none or "no" or "lack of" or lacking))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:09
-	28	pixel\$1 near5 (luminance and chrominance) and(chrominance near5 (without or none or "no" or "lack of" or lacking)) and luminance near5 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:10
-	5	pixel\$1 near5 (luminance and chrominance) and(chrominance near5 (without or none or "no" or "lack of" or lacking)) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:11
-	4	pixel\$1 near5 (luminance and chrominance) and pixel same (chrominance near5 (without or none or "no" or "lack of" or lacking)) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:20
-	0	pixel\$1 near5 (luminance and chrominance) and pixel near4 (without adj chrominance) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:21
-	0	pixel\$1 near15 (luminance and chrominance) and pixel near4 (without adj chrominance) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:21
-	0	pixel near4 (without adj chrominance) and luminance near5 level\$1 and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:21
-	0	pixel near4 (without adj chrominance) and luminance and (printer or printout or print-out)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:22
-	0	pixel near4 (without adj chrominance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:22
-	40	(without adj chrominance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:22
-	35	(without adj chrominance) and luminance	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:22
-	2	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:23

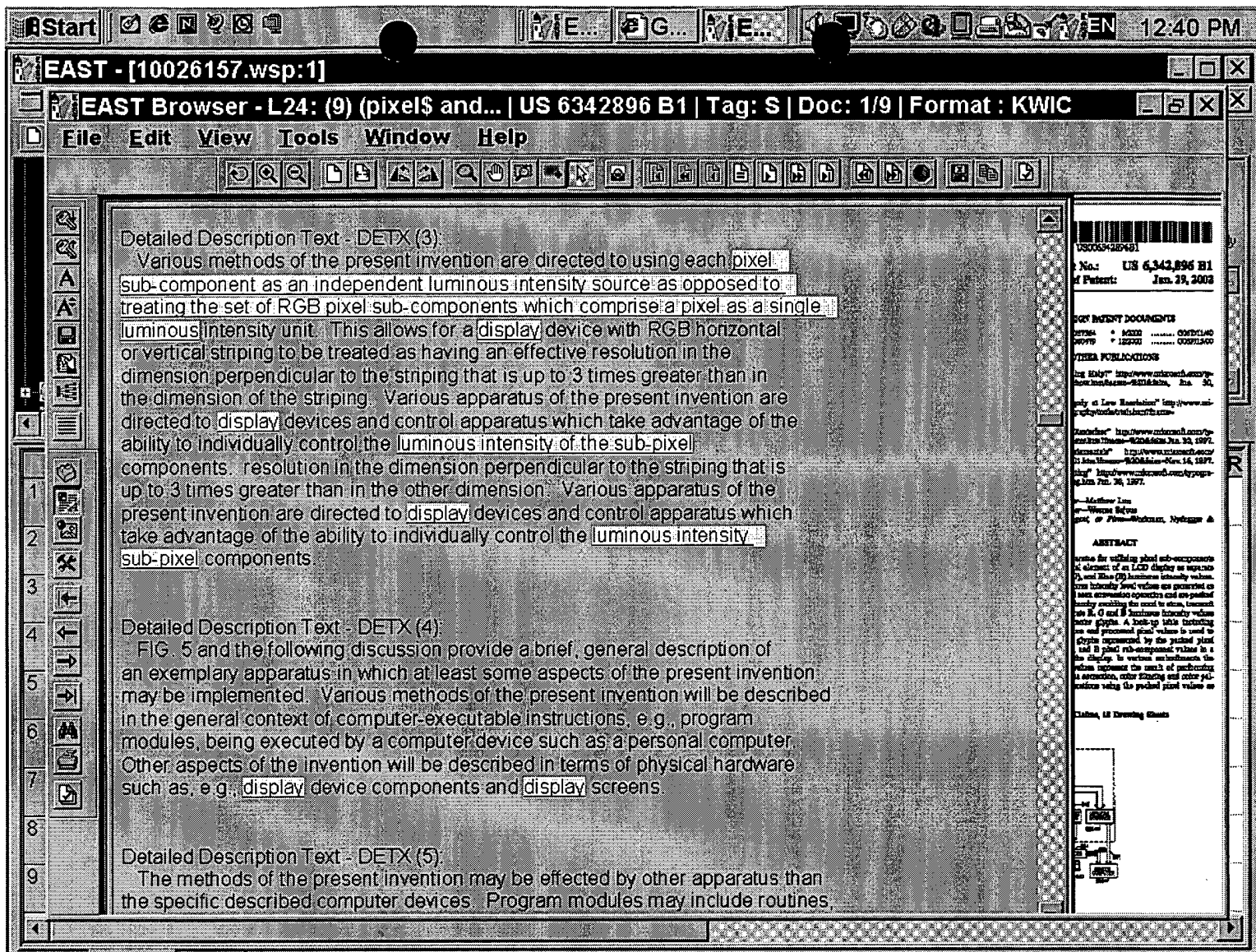
-	2	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4) and (print\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:23
-	2	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4) and (print\$4) and pixel\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:29
-	2	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4 or grey or gray) and (print\$4) and pixel\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:30
-	1	(without adj chrominance) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4 or grey or gray) and (print\$4) same level\$1 and pixel\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:45
-	14	((reduc\$5 near3 chrominance) or (without adj chrominance)) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4 or grey or gray) and (print\$4) same level\$1 and pixel\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:46
-	0	((reduc\$5 near3 chrominance) or (without adj chrominance)) and luminance and (dither\$3 or halfton\$4 or half adj2 ton\$4 or grey or gray) and (print\$4) same level\$1 and pixel\$1 and epson	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:46
-	9	((reduc\$5 near3 chrominance) or (without adj chrominance)) and epson	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:47
-	0	((reduc\$5 near3 chrominance) or (without adj chrominance)) and kitahara	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:47
-	0	print\$4 and ((reduc\$5 near3 chrominance) or (without adj chrominance)) and epson	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 14:51
-	32	"5278678"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:07
-	29	"5278678" and print\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:07
-	8	"5278678" and print\$4 same (luminance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:07
-	2	"5278678" and print\$4 same (luminance) near5 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:08

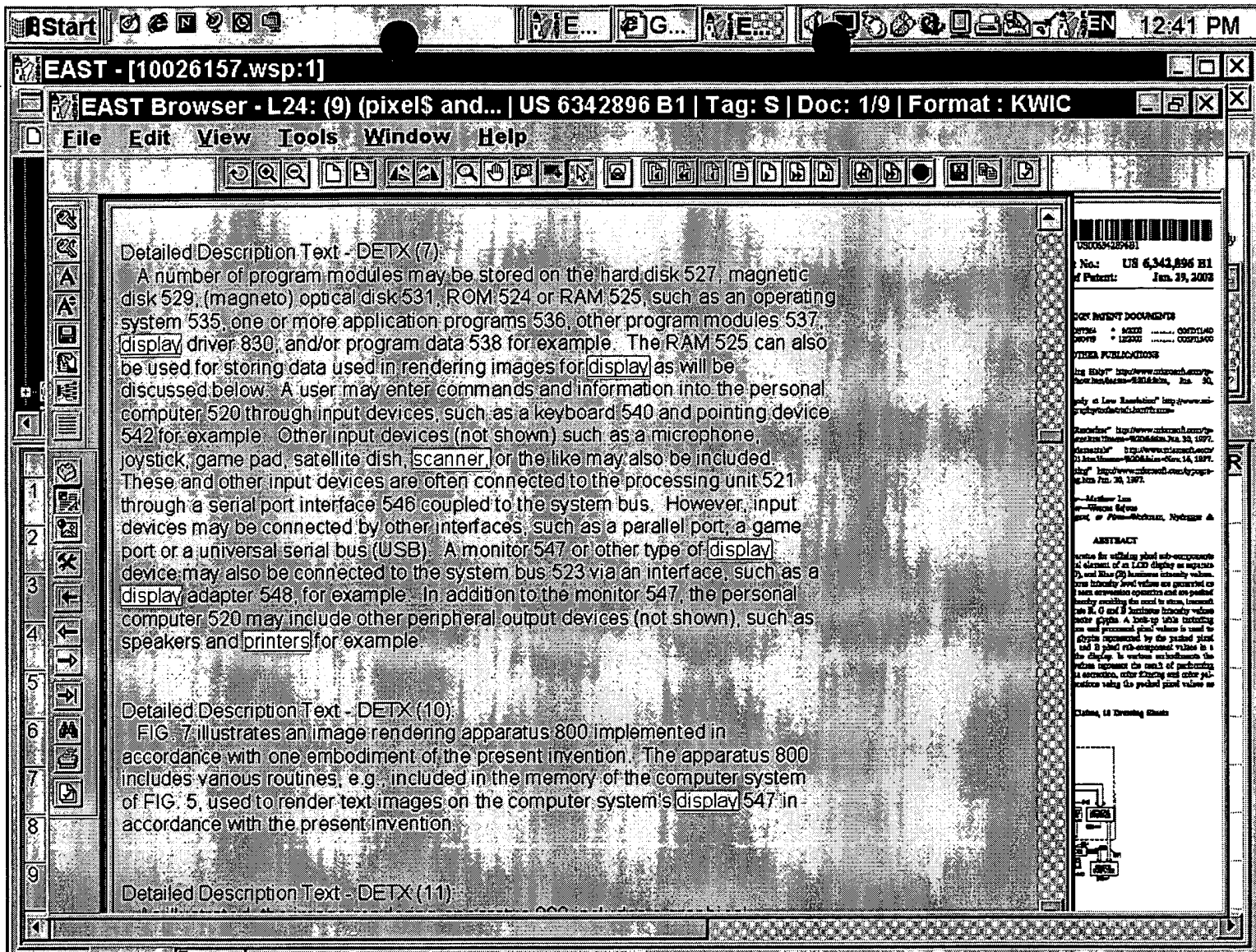
-	1	"5278678" and print\$4 same (luminance)near5 level\$1 and chrominance	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:09
-	1	"5278678" and print\$4 same (luminance)near5 level\$1 and chrominance and luminance near10 conver\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:10
-	0	"5278678" and print\$4 same (luminance)near5 level\$1 and chrominance and luminance near10 conver\$4 near10(rgb or red or green or blue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:11
-	0	"5278678" and print\$4 same (luminance)near5 level\$1 and chrominance and luminance near10 conver\$4 same(rgb or red or green or blue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:11
-	10	print\$4 same (luminance)near5 level\$1 and chrominance and luminance near10 conver\$4 same(rgb or red or green or blue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:11
-	1	print\$4 same (luminance)near5 level\$1 and chrominance near3 (without or reduc\$5 or sacrific\$4) and luminance near10 conver\$4 same(rgb or red or green or blue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:14
-	1634	assign\$6 near10 (color\$1 and (print\$4 or output))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:15
-	1089	assign\$6 near10 (color\$1 same (print\$4 or output))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:16
-	21	assign\$6 near10 (color\$1 same (print\$4 or output))same luminance	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:16
-	3	assign\$6 near10 (color\$1 same (print\$4 or output))same luminance near5 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:17
-	4	assign\$6 near10 (color\$1 same (print\$4 or output))same luminance near15 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:19
-	13	assign\$6 near15 color\$1 same (print\$4 or output) same luminance near15 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:21
-	1	assign\$6 near15 color\$1 same (print\$4 or output) same luminance near5 level\$1 and intensit\$4 and weight\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:35

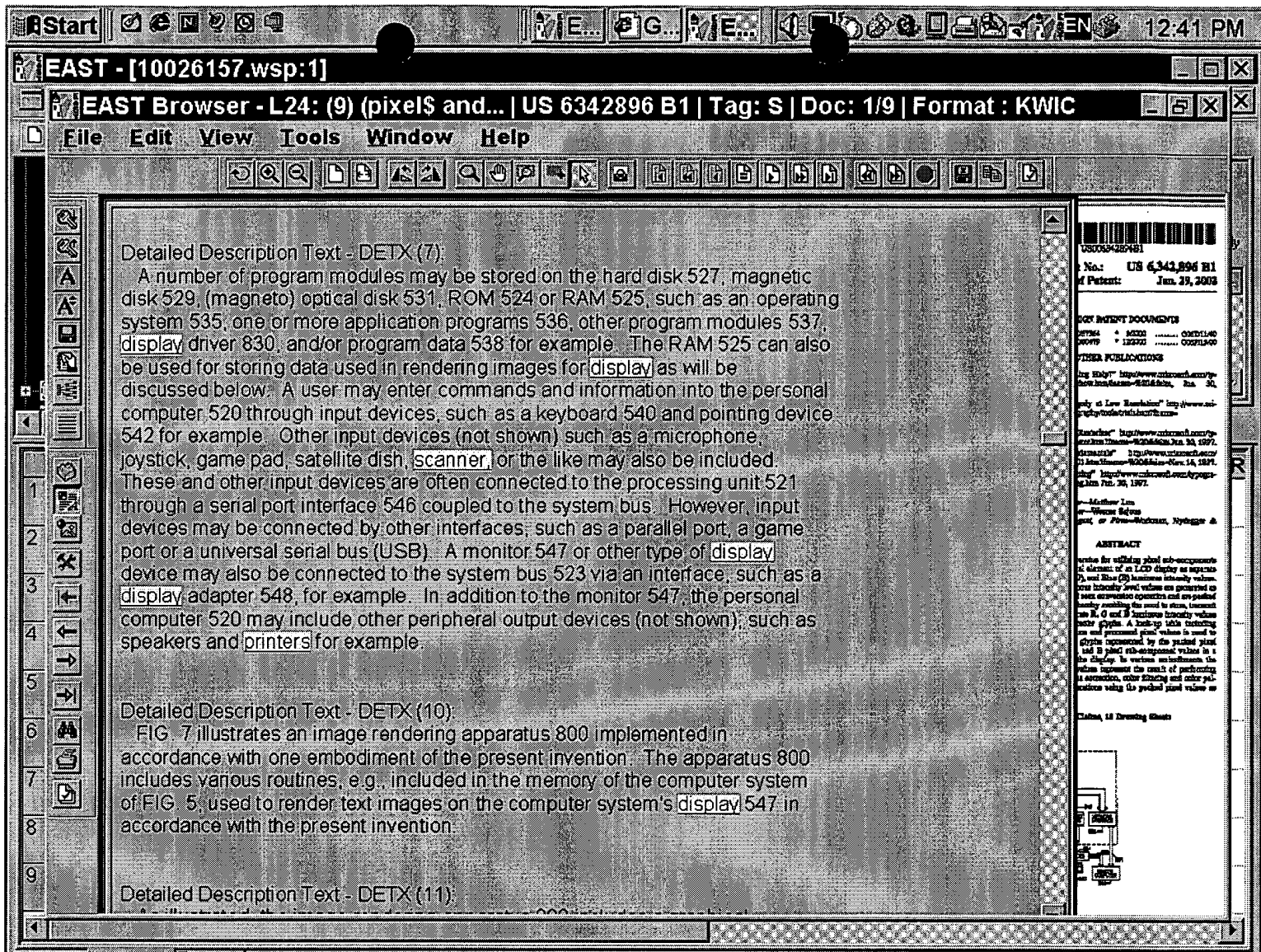
-	2	assign\$6 near15 color\$1 same (print\$4 or output) same luminance near5 level\$1 and intensit\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/12 15:38
-	8	assign\$6 near15 color\$1 same (print\$4 or output) same luminance near5 level\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/02 10:08
-	2	chrom\$9 and luminance and level\$1 and "5966461"	USPAT	2004/08/02 10:46
-	2	chrom\$9 and luminance and level\$1 and "5966461" and (conver\$6 or transform\$6)	USPAT	2004/08/02 10:48
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices) and level\$1 and "5966461" and (conver\$6 or transform\$6)	USPAT	2004/08/02 10:49
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1) and "5966461" and (conver\$6 or transform\$6)	USPAT	2004/08/02 10:50
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6)	USPAT	2004/08/02 10:52
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6) and pixel\$1	USPAT	2004/08/02 10:52
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6) and pixel\$1 and separat\$5	USPAT	2004/08/02 10:53
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6) and pixel\$1 and separat\$5 and (lumin\$8 or luminance)	USPAT	2004/08/02 10:57
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6 or transi\$7) and pixel\$1 and separat\$5 and (lumin\$8 or luminance)	USPAT	2004/08/02 11:24
-	2	chrom\$9 and (lumin\$8 or luminance) same (table\$1 or index\$4 or indices or level\$1 or file\$1 or queue\$1 or stack\$1) and "5966461" and (conver\$6 or transform\$6 or transi\$7) and pixel\$1 and separat\$5 and (lumin\$8 or luminance) same pixel\$1	USPAT	2004/08/02 11:24
-	971	(pixel\$ and lumin\$9)near15 (conver\$4 or trans\$7) and lumin\$8 near7(level\$1 or indices or index\$2)	USPAT	2004/08/02 11:31
-	837	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near7(level\$1 or indices or index\$2)	USPAT	2004/08/02 11:31
-	778	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near5(level\$1 or indices or index\$2)	USPAT	2004/08/02 11:32
-	682	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near5(level\$1 or indices or index\$2) and (print\$4 or display\$4)	USPAT	2004/08/02 11:32
-	568	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near5(level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera)	USPAT	2004/08/02 11:33
-	571	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near5(level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4)	USPAT	2004/08/02 11:34
-	502	(pixel\$ and lumin\$9)near10 (conver\$4 or trans\$7) and lumin\$8 near3(level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4)	USPAT	2004/08/02 11:34
-	435	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3(level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4)	USPAT	2004/08/02 11:34

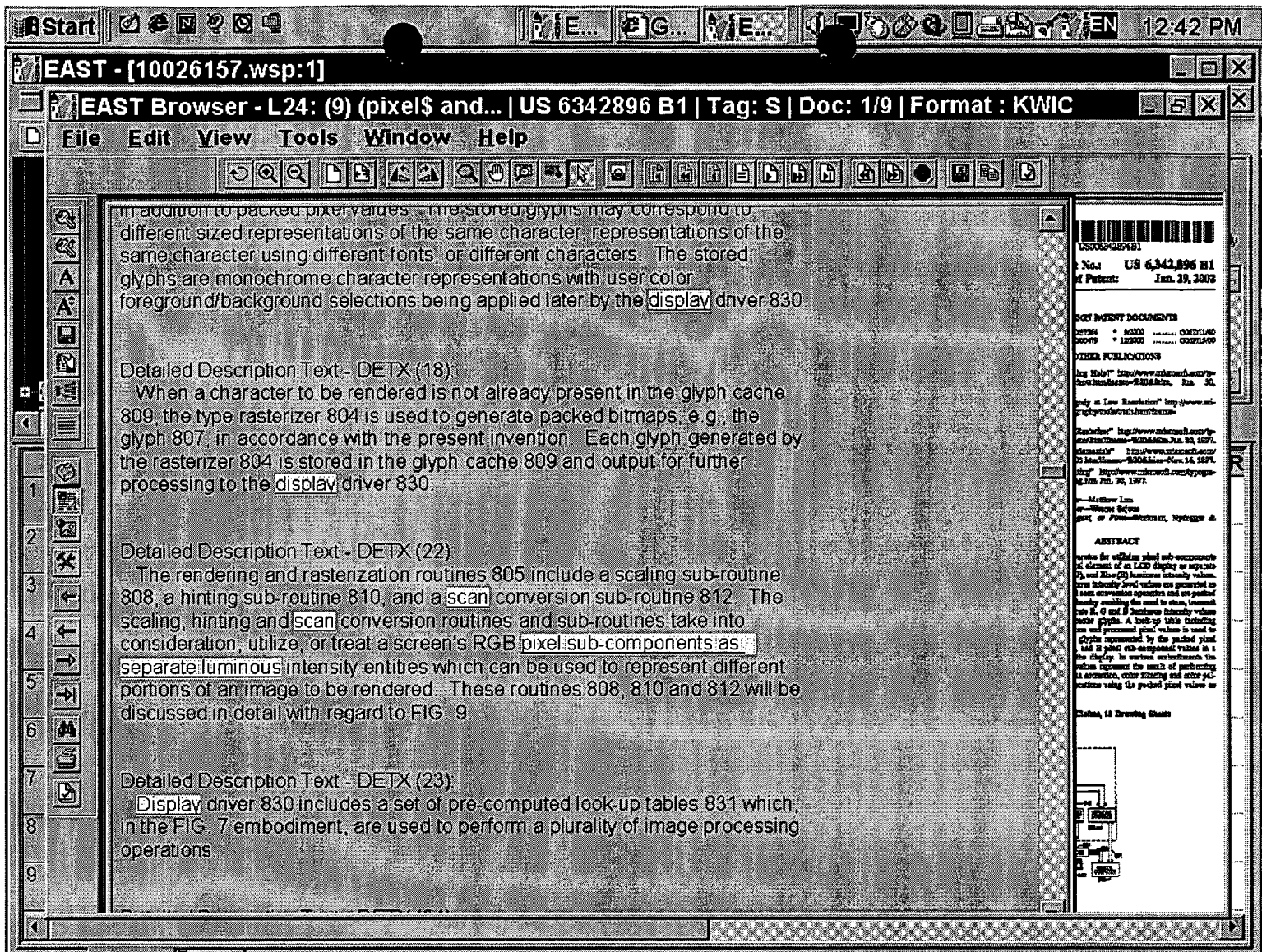
-	330	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3(level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4) and lumin\$8 near7 pixel\$1	USPAT	2004/08/02 11:35
-	3	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3(level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4) and lumin\$8 near7 pixel\$1 and (sum\$4 or add\$3) near7 weight\$4 same intensit\$5	USPAT	2004/08/02 11:36
-	1	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3(level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4) and lumin\$8 near7 pixel\$1 and weight\$4 same intensit\$5 and print\$4 near4 color\$1	USPAT	2004/08/02 12:02
-	9	(pixel\$ and lumin\$9)near7 (conver\$4 or trans\$7) and lumin\$8 near3(level\$1 or indices or index\$2) and (print\$4 or display\$4) and (captur\$4 or scan\$4 or ccd or camera or imag\$4 near3 sens\$4) and lumin\$8 near7 pixel\$1 and weight\$4 same intensit\$5	USPAT	2004/08/02 12:04











In addition to packed pixel values, the stored glyphs may correspond to different sized representations of the same character, representations of the same character using different fonts, or different characters. The stored glyphs are monochrome character representations with user color foreground/background selections being applied later by the display driver 830.

Detailed Description Text - DETX (18):

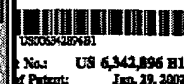
When a character to be rendered is not already present in the glyph cache 809, the type rasterizer 804 is used to generate packed bitmaps, e.g., the glyph 807, in accordance with the present invention. Each glyph generated by the rasterizer 804 is stored in the glyph cache 809 and output for further processing to the display driver 830.

Detailed Description Text - DETX (22):

The rendering and rasterization routines 805 include a scaling sub-routine 808, a hinting sub-routine 810, and a scan conversion sub-routine 812. The scaling, hinting and scan conversion routines and sub-routines take into consideration, utilize, or treat a screen's RGB pixel sub-components as separate luminous intensity entities which can be used to represent different portions of an image to be rendered. These routines 808, 810 and 812 will be discussed in detail with regard to FIG. 9.

Detailed Description Text - DETX (23):

Display driver 830 includes a set of pre-computed look-up tables 831 which, in the FIG. 7 embodiment, are used to perform a plurality of image processing operations.



US 6,342,896 B1

Patent

BRIEF SUMMARY

OTHER PUBLICATIONS

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

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US 6,342,896 B1

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US 6,342,896 B1

Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

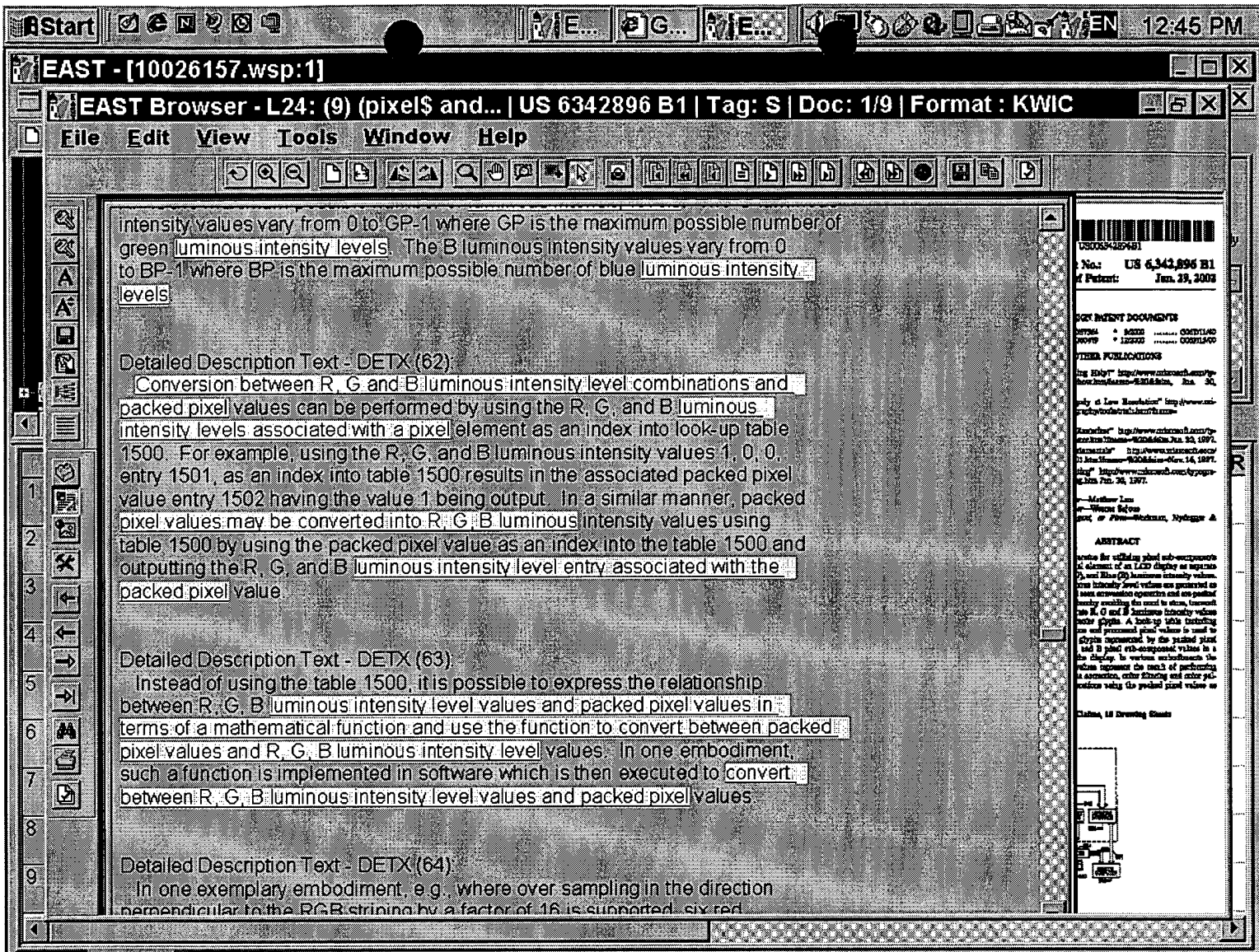
Patent

US 6,342,896 B1

Patent

US 6,342,896 B1

Patent



intensity values vary from 0 to GP-1 where GP is the maximum possible number of green luminous intensity levels. The B luminous intensity values vary from 0 to BP-1 where BP is the maximum possible number of blue luminous intensity levels.

Detailed Description Text - DETX (62)

Conversion between R, G and B luminous intensity level combinations and packed pixel values can be performed by using the R, G, and B luminous intensity levels associated with a pixel element as an index into look-up table 1500. For example, using the R, G, and B luminous intensity values 1, 0, 0, entry 1501, as an index into table 1500 results in the associated packed pixel value entry 1502 having the value 1 being output. In a similar manner, packed pixel values may be converted into R, G, B luminous intensity values using table 1500 by using the packed pixel value as an index into the table 1500 and outputting the R, G, and B luminous intensity level entry associated with the packed pixel value.

Detailed Description Text - DETX (63)

Instead of using the table 1500, it is possible to express the relationship between R, G, B luminous intensity level values and packed pixel values in terms of a mathematical function and use the function to convert between packed pixel values and R, G, B luminous intensity level values. In one embodiment, such a function is implemented in software which is then executed to convert between R, G, B luminous intensity level values and packed pixel values.

Detailed Description Text - DETX (64)

In one exemplary embodiment, e.g., where over sampling in the direction perpendicular to the RGB striding by a factor of 16 is supported, six red



US 6342896 B1
No. US 6342896 B1
Patent: Jan. 29, 2002

OTHER PUBLICATIONS

US 6342896 B1
US 6342896 B1
US 6342896 B1

OTHER PUBLICATIONS

US 6342896 B1
US 6342896 B1
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OTHER PUBLICATIONS

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